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EXAMINER

BEYEN, ZEWDU A

ART UNIT	PAPER NUMBER
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2461

MAIL DATE	DELIVERY MODE
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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/579,404	RIDDINGTON ET AL.	
	Examiner	Art Unit	
	ZEWDU BEYEN	2461	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 June 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12, 38, 40-44, 46, 47, 49-64, 67, 68, 70-74, 76 and 77 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7-12, 38, 40, 42-44, 46, 47, 49-57, 59-64, 68, 70-74, 76 and 77 is/are rejected.
- 7) ☒ Claim(s) 6, 41, and 58 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

This action is responsive to amendment dated 06/16/2010. Applicant's amendments filed on 06/16/2010 has been entered and considered. Claims 1-12,38, 40-44, 46, 47, 49-64, 67, 68, 70-74, 76, and 77 are pending in this application. Claims 1-5,7-12, and 38,40,42-44,46,47,49-57,59-64,68,70-74,76,and 77 are stand rejected.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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Claims 9-11, 61, 72, 46, 62, 63, 67, 73, and 76 are rejected under 35 U.S.C.

103(a) as being unpatentable over DeMartin to **(US6421527)**, in view of Mueller to **(US6067289)**

Regarding claim 9, 61, and 72 DeMartin teaches determining a coding type for a speech signal via a converter(**col.4 lines 27-31 and col.4 lines 37-39**

discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame);

locating, via the converter, a set of bits corresponding to each transport channel of a plurality of transport channels based on the coding type(**col.4 lines 9-20**

discloses Speech bits are divided into classes of decreasing perceptual importance. Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits. Furthermore , col.4 lines 37-39 discloses The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame);

decoding the plurality Of transport channels based on the corresponding set of bits in accordance with the determined coding type(**col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).**

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DeMartin does not explicitly teach wherein the generic TRAU frame is adaptable for use with different codecs

However, Mueller teaches wherein the generic TRAU frame is adaptable for use with different codecs(**abstract discloses For transmitting GSM data in a communication network (PSTN), a predefined frame format (TRAU) is preserved in the communication network (PSTN) for mobile stations (TL1, TL2). This predefined frame format (TRAU) is preserved even if the coding rates in the uplink and downlink are different**)

Therefore it would have been obvious to one ordinarily skilled in the art at the time the invention was made to enable the system of DeMartin include a generic TRAU frame wherein the generic TRAU frame is adaptable for use with different codecs, as suggested by Mueller. This modification would benefit the system to efficiently transmit speech signals.

Regarding claim 10, DeMartin teaches locating error check bits associated with a first transport channel of the plurality of transport channels; and of based on the located error check bits, error checking the first transport channel(**col.4 lines 9-20 discloses Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits the bits are protected by a Cyclic Redundancy Code (CRC) parity check. A CRC parity check is computed over the bits of Class 0 to detect any error at the receiver**).

Regarding claim 11, DeMartin teaches wherein the method includes the step of

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locating a set of control bits, said control bits including an indication of the coding type of the speech signal(**col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame)**

Regarding claim 46, DeMartin teaches wherein the step of decoding comprises mapping each located set of bits into a required format associated with the coding type(**col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).**

Regarding claim 62, DeMartin teaches 61, wherein the converter is further configured to:locate error check bits associated with a first transport channel of the plurality of transport channels; and based on the located error check bits, error Check the first transport channel(**col.4 lines 9-20 discloses Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits the bits are protected by a Cyclic Redundancy Code (CRC) parity check. A CRC parity check is computed over the bits of Class 0 to detect any error at the receiver).**

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Regarding claim 63, DeMartin teaches wherein the converter is further configured to locate a set of control bits, wherein the set of control bits include an indication of the coding type of the speech signal(**col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).**

Regarding claim 67, DeMartin teaches wherein the converter is further configured to map each located set of bits into a required format associated with the coding type(**col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).**

Regarding claim 73, DeMartin teaches wherein the instructions cause the computing device to perform a method further comprising:
locating error check bits associated with a first transport channel of the plurality of transport channels(**col.4 lines 9-20 discloses Speech bits are divided into classes of decreasing perceptual importance);;** and
based on the located error check bits, error checking the first transport channel(**col.4 lines 9-20 discloses Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits the**

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bits are protected by a Cyclic Redundancy Code (CRC) parity check. A CRC parity check is computed over the bits of Class 0 to detect any error at the receiver).

Regarding claim 76, DeMartin teaches wherein the instructions cause the .computing device to perform a method further comprising mapping each located set of bits into a required format associated with the coding type(col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).

Claims 1-4,7-8,38, 40,42,47,49-54, 57, 59-60,68, 70-71, and 77, are rejected under 35 U.S.C. 103(a) as being unpatentable over DeMartin to (US6421527), in view of Niemela to (US20020003783), and further in view of Mueller to (US6067289)

Regarding claims 1, 47, 68, and 77 DeMartin teaches determining a coding type for a speech signal (col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame)

determining a set of bits associated with each transport channel of at least two transport

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channels corresponding to the speech signal (col.4 lines 9-20 discloses **Speech bits are divided into classes of decreasing perceptual importance. Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits)**

determining a priority for each set of bits associated with each transport channel via the TRAU(col.4 lines 9-20 discloses **Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits)**

DeMartin does not explicitly teach a transcoder and ' rate adaptor unit (TRAU) and inserting into a TRAU frame, via the TRAU, each set of bits according to the determined priority of each set of bits , wherein the generic TRAU frame is adaptable for use with different codecs

However, Niemela teaches a transcoder and ' rate adaptor unit (TRAU) and inserting into a TRAU frame, via the TRAU, each set of bits according to the determined priority of each set of bits ([0066] discloses **TRAU (Transcoder and Rate Adapter Unit) frames formed for transcoding. In circuit-switched speech transfer, 260 bits containing 20 ms of speech are coded at the subscriber terminal 150 such that the most important 50 class Ia bits and 132 class Ib bits are convolution-coded. In addition, error correction bits are added to these bits, which gives a total of 378 bits. Then, 78 class II bits of less importance are added to these 378 bits. This gives a total of 456 bits, which, in principle, would fit in four radio bursts)**

Therefore it would have been obvious to one ordinarily skilled in the art at the time the invention was made to enable the system of DeMartin include a transcoder and ' rate adaptor unit (TRAU) and inserting into a TRAU frame, via the TRAU, each set of bits according to the determined priority of each set of bits, as suggested by Niemela. This modification would benefit the system to efficiently support flexible transmission capacity.

The combination of DeMartin and Niemela does not explicitly teach wherein the generic TRAU frame is adaptable for use with different codecs

However, Mueller teaches wherein the generic TRAU frame is adaptable for use with different codecs;**(abstract discloses For transmitting GSM data in a communication network (PSTN), a predefined frame format (TRAU) is preserved in the communication network (PSTN) for mobile stations (TL1, TL2). This predefined frame format (TRAU) is preserved even if the coding rates in the uplink and downlink are different)**

Therefore it would have been obvious to one ordinarily skilled in the art at the time the invention was made to enable the system of The combination of DeMartin and Niemela include a generic TRAU frame wherein the generic TRAU frame is adaptable for use with different codecs, as suggested by Mueller. This modification would benefit the system to efficiently transmit speech signals.

Regarding claim 2, DeMartin teaches determining if error checking is required for one

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or more of the at least two transport channel associated computing error check bits for each transport channel that requires error checking; (**col.4 lines 9-20 discloses Speech bits are divided into classes of decreasing perceptual importance**) and inserting into the TRAU frame the computed error check bits associated with each transport channel that requires error checking after ~~the set of bits~~ associated with that channel (**col.4 lines 9-20 discloses Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits the bits are protected by a Cyclic Redundancy Code (CRC) parity check. A CRC parity check is computed over the bits of Class 0 to detect any error at the receiver).**

Regarding claim 3, DeMartin teaches of inserting control bits into said TRAU frame(**col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).**

Regarding claim 4, DeMartin teaches, wherein the control bits are inserted a reserved location in the TRAU frame(**col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame)**

Regarding claim 7, A method according to claim 6: wherein the TRAU frame comprises an initial set of control bits(**col.4 lines 27-31 and col.4 lines 37-39 discloses the**

channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame)

Regarding claim 8, DeMartin teaches wherein the set of cyclic redundancy bits are compiled based on at least one control bit(col.4 lines 9-20 discloses Class 0, includes the most important bits. On the up-link frame, the bits are protected by a Cyclic Redundancy Code (CRC) parity check)

Regarding claim 38, DeMartin teaches wherein the step of inserting comprises inserting a higher priority set of bits into the TRAU frame before inserting a lower priority set of bits into the TRAU frame(col.4 lines 9-20 discloses Speech bits are divided into classes of decreasing perceptual importance).

Regarding claim 40, DeMartin teaches, further comprising encoding the speech signal to generate a plurality of speech coefficients (col.6 lines 39-44 discloses generating coefficients).

Regarding claim 42, DeMartin teaches wherein the transport format combination indicator indicates the coding type(col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).

Regarding claim 49, DeMartin teaches 47, further comprising a codec configured to encode a signal(col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the

frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).

Regarding claim 50, DeMartin teaches claim 49, wherein the codec is further configured to generate a plurality of speech coefficients(**col.6 lines 39-44 discloses generating coefficients**)..

Regarding claim 51, DeMartin teaches 47, wherein the converter is further configured to insert a higher priority set of bits into the TRAU frame before inserting a lower priority set of bits into the TRAU frame(**col.4 lines 9-20 discloses Speech bits are divided into classes of decreasing perceptual importance**).

Regarding claim 52, DeMartin teaches 47, wherein the converter is further configured to: determine if error checking is required for a transport channel of the at least two transport channels(**col.4 lines 9-20 discloses Speech bits are divided into classes of decreasing perceptual importance**);

compute error check bits for each transport channel that requires error checking (**col.4 lines 9-20 discloses Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits the bits are protected by a Cyclic Redundancy Code (CRC) parity check. A CRC parity check is computed over the bits of Class 0 to detect any error at the receiver**) and insert in the TRAU frame the computed error check bits associated with each transport channel that requires error checking (**col.4 lines 9-20 discloses Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits the bits are protected by a Cyclic**

Redundancy Code (CRC) parity check. A CRC parity check is computed over the bits of Class 0 to detect any error at the receiver).

Regarding claim 53, DeMartin teaches wherein the converter is further configured to insert control bits into the TRAU frame(col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).

Regarding claim 54, DeMartin teaches claim 53, wherein the control bits are inserted at a reserved location in the TRAU frame(col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).

Regarding claim 57, DeMartin teaches (New) A TRAU according to claim 53, wherein the control bits comprise at least one of an indication of a number of transport channels included in the TRAU frame, a location in the TRAU frame of each set of bits associated with each transport channel, (col.4 lines 9-20 discloses Speech bits are divided into classes of decreasing perceptual importance) an indication of if error checking applies to the sets of bits inserted in the TRAU frame, and a location in the TRAU frame of error checking information if error checking applies(col.4 lines 9-20 discloses Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits the bits are protected by a Cyclic Redundancy Code (CRC) parity check. A CRC parity check is computed over the bits of Class 0 to detect any error at the receiver).

Regarding claim 59, DeMartin teaches claim 58, wherein the TRAU frame comprises an initial set of control bits(**col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).**

Regarding claim 60, DeMartin teaches wherein the set of cyclic redundancy bits are compiled based on at least one control bit(**col.4 lines 9-20 discloses Class 0, includes the most important bits. On the up-link frame, the bits are protected by a Cyclic Redundancy Code (CRC) parity check).**

Regarding claim 70, DeMartin teaches wherein the step of inserting further comprises inserting a higher priority set of bits into the TRAU frame before inserting a lower priority set of bits into the TRAU frame(**col.4 lines 9-20 discloses Speech bits are divided into classes of decreasing perceptual importance).**

Regarding claim 71, DeMartin teaches wherein the instructions cause the computing device to perform a method further comprising:

determining if error checking is required for a transport channel of the at least two transport channels(**col.4 lines 9-20 discloses Speech bits are divided into classes of decreasing perceptual importance);**

computing error check bits for each transport channel that requires error checking(**col.4 lines 9-20 discloses Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits the bits are protected by a Cyclic**

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Redundancy Code (CRC) parity check. A CRC parity check is computed over the bits of Class 0 to detect any error at the receiver); and inserting in the TRAU frame the computed error check bits associated with each transport channel that requires error checking(col.4 lines 9-20 discloses Each class is then encoded with convolutional codes of appropriate rate (including, possibly, rate 1, i.e., no protection). The first class, Class 0, includes the most important bits the bits are protected by a Cyclic Redundancy Code (CRC) parity check. A CRC parity check is computed over the bits of Class 0 to detect any error at the receiver).

Claims 5, 55, and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over DeMartin, and Niemela, and Mueller, and further in view of Honkasalo to (US6636497).

Regarding claims 5, and 55 the combination of DeMartin, and Niemela, and Mueller does not explicitly teach control bits that include a transport format combination indicator.

However, Honkasalo teaches control bits that include a transport format combination indicator (**col.9 lines 37-39 discloses a transport format indicator (it can also be called rate indicator or transport format combination indicator) that is used to indicate the mixture of services used in the frame)**

Therefore it would have been obvious to one ordinary skill in the art at the time the invention was made to include a transport format combination indicator

in the system of the combination of DeMartin, and Niemela , and Mueller does not explicitly teach, as suggested by Honkasalo. This modification would benefit the system of the combination as a design choice.

Regarding claim 56, DeMartin teaches wherein the transport format combination indicator indicates the coding type(**col.4 lines 27-31 and col.4 lines 37-39 discloses the channel encoded information 21b, the codec mode header 21a and beacon bit 21c are sent in the frame 21, and The receiver recognizes the header 21b 3-bit (repetition code for example) code and knows the codec mode to use for the frame).**

Claim 43 is rejected under 35 U.S.C. 103(a) as being unpatentable over DeMartin, and Niemela, and Mueller further in view of Bender to **(US20030133494)**

Regarding claim 43, the combination of DeMartin, and Niemela , and Mueller does not explicitly teach wherein the TRAU frame is configured via a configuration message used to configure a flexible layer one protocol

However, Bender teaches the TRAU frame is configured via a configuration message used to configure a flexible layer one protocol **([0120] discloses sending and receiving configuration message to configure layer and protocol).**

Therefore it would have been obvious to one ordinarily skilled in the art at the time the invention was made to enable the system of the combination of DeMartin, and

Niemela , and Mueller TRAU frame is configured via a configuration message used to configure a flexible layer one protocol, as suggested by Bender. This modification would benefit the system of the combination to efficiently configure its layer and protocol.

Claims 12, and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over DeMartin, in view of Mueller and further in view of Honkasalo to (US6636497).

Regarding claims 12, and 64 the combination of DeMartin and Mueller does not teach control bits that include a transport format combination indicator.

However, Honkasalo teaches control bits that include a transport format combination indicator (**col.9 lines 37-39 discloses a transport format indicator (it can also be called rate indicator or transport format combination indicator) that is used to indicate the mixture of services used in the frame)**

Therefore it would have been obvious to one ordinary skill in the art at the time the invention was made to include a transport format combination indicator in the system of DeMartin and Mueller, as suggested by Honkasalo. This modification would benefit the system as a design choice.

Claims 44, and 74 are rejected under 35 U.S.C. 103(a) as being unpatentable over DeMartin, and Mueller and further in view of Niemela to **(US20020003783)**

Regarding claim 44, the combination of DeMartin , and Mueller does not explicitly teaches receiving a generic TRAU frame at a mobile station

However, Niemela teaches receiving a generic TRAU frame at a mobile station([0066] **discloses TRAU frame**).

Therefore it would have been obvious to one ordinarily skilled in the art at the time the invention was made to enable the system of DeMartin , and Mueller receiving a generic transcoder and rate adaptor unit (TRAU) frame, as suggested by Niemela. This modification would benefit the system to efficiently support flexible transmission capacity.

Regarding claim 74, the combination of DeMartin and Mueller does not explicitly teaches receive a generic TRAU frame

However, Niemela teaches receiving a generic transcoder and rate adaptor unit (TRAU) frame([0066] **discloses TRAU frame**).

Therefore it would have been obvious to one ordinarily skilled in the art at the time the invention was made to enable the system of DeMartin and Mueller receiving a generic transcoder and rate adaptor unit (TRAU) frame, as suggested by Niemela. This modification would benefit the system to efficiently support flexible transmission capacity.

Allowable Subject Matter

Claims 6, 41, and 58 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Argument

Applicant's argument has been considered, but is not persuasive.

Applicant's argument : Applicant's argues that "Mueller indicates that different coding rates can be used with a TRAU. However, use of different coding rates is not the same as the claimed "wherein the generic TRAU frame is adaptable for use with different codecs." " Examiner respectively disagrees, without further information about "adaptable for use with different codecs" examiner maintains the rejection, since Mueller clearly teaches different coding rates being used with a TRAU. Furthermore, the claim language "the generic TRAU frame is adaptable for use with different codecs" is not necessary mean the generic TRAU frame is used with different codecs.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ZEWDU BEYEN whose telephone number is (571)270-7157. The examiner can normally be reached on Monday thru Friday, 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 1-571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

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Customer Service Representative or access to the automated information system, call
800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Z. B./

Examiner, Art Unit 2461

/Huy D Vu/

Supervisory Patent Examiner, Art Unit 2461